ONT ON TON BE

SEQUENCE LISTING

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110> BARCLAY, A. Neil
      BROWN, Marion H.
      GORMAN, Daniel M.
      LANIER, Lewis L.
      WRIGHT, Gavin J.
      CHERWINSKI, Holly
      PHILLIPS, Joseph H.
      HOEK, Robert M.
     SEDGWICK, Jonathan D.
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cac gta gca gta ctc ttg atc tgg ggg gtc ttc gcg gct gag tca agt
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His Val Ala Val Leu Leu Ile Trp Gly Val Phe Ala Ala Glu Ser Ser
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Ile Gln Tyr Ile Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys
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											gtg Val					762
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											gcc Ala			caa Gln		858
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Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys
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Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile 90 95 100

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Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro

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		cag Gln														147
		gta Val														195

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75

240

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Asn Glu Thr Lys Glu Thr Asn Cys Thr Val Glu Arg Ile Thr Trp Val

70

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act cat of Thr His A												336
ttc cat o				ı Val								384
cta ttt c Leu Phe C 130	_			_	_	-	_	_	_			432
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act aag (Thr Lys (528
tgc ccc t Cys Pro												576
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acc tca of Thr Ser (_		_							672
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Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Asn 115 120 125

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Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr Cys His Val Ser His
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Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile Ile Leu Tyr Val Lys 210 220

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ggg gaa aat aga act gca gtt tgt gag gca atg gca ggc a Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Met Ala Gly L 85 90	
gca cag atc tct tgg act cca gat ggg gac tgt gtc act a Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Thr L 100 105 1	
tca cac agc aat ggc act gtg act gtc agg agc act tgc c Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys H 115 120 125	J. J. J.
cag aac aat gtg tct gct gtg tcc tgc att gtc tct cat t Gln Asn Asn Val Ser Ala Val Ser Cys Ile Val Ser His S 130 135 140	
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Val Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Leu
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Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu
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Gln Asn Asn Val Ser Ala Val Ser Cys Ile Val Ser His Ser Thr Gly
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Asn Gln Ser Leu Ser Ile Glu Leu Ser Arg Gly Thr Thr Ser Thr Thr
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			_	gaa Glu	_		_				_		_			776
ttg	ctg	agc	att	ctc	tat	gtg	aaa	ctg	gct	gta	act	gtt	ctc	atc	gta	824

Leu Leu Ser Ile Leu Tyr Val Lys Leu Ala Val Thr Val Leu Ile Val 230 225 gga ttt gct ttt ttc cag aag aga aat tat ttc aga gtg cca gaa ggc 872 Gly Phe Ala Phe Phe Gln Lys Arg Asn Tyr Phe Arg Val Pro Glu Gly 245 240 tcc tgaggagagt ggtctgtggt taagatgaga tttaccacca tctgaaagac 925 atcttgtcta ccgcgcagcg tgctgagatt ccgagaagca gccacagaac ctactaggaa 985 qacaaatctq atqtqqttqt caatcctttc aatggacctg agtacttcta taaacccgag 1045 tgaggttgtg ctggacccag gagccaggct aggtcatata tgttgatttt tgctgcaaga 1105 cctcatqqtt tatctacaaa tcctaaattc tttcacttcc agttttaaaa cttttggccc 1165 aagcatttta tecacagcat aacacettta aagaaactet eecacggaaa etgetggtte 1225 catggaatgg aaaattgcaa catggtttac aagacagtgc aaaccaagca gcattccaag 1285 atatgagett cagaaagtta caggaactgt ettgggaega gaaagaagga ttaaatagtt 1345 1354 cccagtccc <210> 12 <211> 278 <212> PRT <213> Unknown <400> 12 Met His Ala Leu Gly Arg Thr Leu Ala Leu Met Leu Leu Ile Phe Ile -20 -15 Thr Ile Leu Val Pro Glu Ser Ser Cys Ser Val Lys Gly Arg Glu Glu -1 Ile Pro Pro Asp Asp Ser Phe Pro Phe Ser Asp Asp Asn Ile Phe Pro Asp Gly Val Gly Val Thr Met Glu Ile Glu Ile Ile Thr Pro Val Ser Val Gln Ile Gly Ile Lys Ala Gln Leu Phe Cys His Pro Ser Pro Ser 40 Lys Glu Ala Thr Leu Arg Ile Trp Glu Ile Thr Pro Arg Asp Trp Pro Ser Cys Arg Leu Pro Tyr Arg Ala Glu Leu Gln Gln Ile Ser Lys Lys 75 Ile Cys Thr Glu Arg Gly Thr Thr Arg Val Pro Ala His His Gln Ser 95 Ser Asp Leu Pro Ile Lys Ser Met Ala Leu Lys His Asp Gly His Tyr 105 110

130

Ser Cys Arg Ile Glu Thr Thr Asp Gly Ile Phe Gln Glu Arg His Ser

Ile Gln Val Pro Gly Glu Asn Arg Thr Val Val Cys Glu Ala Ile Ala

125

140 145 150

Ser Lys Pro Ala Met Gln Ile Leu Trp Thr Pro Asp Glu Asp Cys Val 155 160 165

Thr Lys Ser Lys Ser His Asn Asp Thr Met Ile Val Arg Ser Lys Cys 170 175 180

His Arg Glu Lys Asn Asn Gly His Ser Val Phe Cys Phe Ile Ser His 185 190 195

Leu Thr Asp Asn Trp Ile Leu Ser Met Glu Gln Asn Arg Gly Thr Thr 200 205 210 215

Ser Ile Leu Pro Ser Leu Leu Ser Ile Leu Tyr Val Lys Leu Ala Val 220 225 230

Thr Val Leu Ile Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Tyr Phe 235 240 245

Arg Val Pro Glu Gly Ser 250

<210> 13

<211> 981

<212> DNA

<213> reverse translation

<220>

<221> misc_feature

<222> (1)..(981)

<223> n may be a, c, g, or t

<400> 13

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gtnacnacna engargenca yeengenwsn carggnaarg tnaayggnac ngaytgyytn 960
acnytnwsng enatgggnat h 981
<210> 14

<210> 14
<211> 885
<212> DNA
<213> reverse translation

<220>
<221> misc_feature
<222> (1)..(885)
<223> n may be a, c, g, or t

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atgytntgyc cntggmgnac ngcnaayytn ggnytnytny tnathytnac nathttyytn 60 gtngcngarg cngarggngc ngcncarccn aayaaywsny tnatgytnca racnwsnaar 120 garaaycayg cnytngcnws nwsnwsnytn tgyatggayg araarcarat hacncaraay 180 taywsnaarg tnytngcnga rgtnaayacn wsntggccng tnaaratggc nacnaaygcn 240 gtnytntgyt gyccnccnat hgcnytnmgn aayytnatha thathacntg ggarathath 300 ytnmgnggnc arccnwsntg yacnaargcn tayaaraarg aracnaayga racnaargar 360 acnaaytgya cngaygarmg nathacntgg gtnwsnmgnc cngaycaraa ywsngayytn 420 carathmgna cngtngcnat hacncaygay ggntaytaym gntgyathat ggtnacnccn 480 gayggnaayt tycaymgngg ntaycayytn cargtnytng tnacnccnga rgtnacnytn 540 ttycaraaym gnaaymgnac ngcngtntgy aargcngtng cnggnaarcc ngcngcncay 600 athwsntgga thccngargg ngaytgygcn acnaarcarg artaytggws naayggnacn 660 gtnacngtna arwsnacntg ycaytgggar gtncayaayg tnwsnacngt nacntgycay 720 gtnwsncayy tnacnggnaa yaarwsnytn tayathgary tnytnccngt nccnggngcn 780 aaraarathw snaarathat htaywsnath taycayccnt aytaytayta yytngaycay 840 885 mgnggnathc ayytngtngt ngarwsncar tggytncara arath

<210> 15
<211> 978
<212> DNA
<213> reverse translation

<220>
<221> misc_feature
<222> (1)..(978)
<223> n may be a, c, g, or t

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genggnwsnw sntgyacnga yaaraaycar acnacncara ayaaywsnws nwsnccnytn 120
acncargtna ayacnacngt nwsngtncar athggnacna argenytnyt ntgytgytty 180

wsnathcony tnacnaargo ngtnytnath acntggatha thaarytnmg nggnytnccn 240
wsntgyacna thgcntayaa rgtngayacn aaracnaayg aracnwsntg yytnggnmgn 300
aayathacnt gggcnwsnac nccngaycay wsnccngary tncarathws ngcngtnacn 360
ytncarcayg arggnacnta yacntgygar acngtnacnc cngarggnaa yttygaraar 420
aaytaygayy tncargtnyt ngtnccnccn gargtnacnt ayttyccnga raaraaymgn 480
wsngcngtnt gygargcnat ggcnggnaar ccngcngcnc arathwsntg gwsnccngay 540
ggngaytgyg tnacnacnws ngarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600
tgycaytggg arcaraayaa ygtnwsngay gtnwsntgya thgtnwsnca yytnacnggn 660
aaycarwsny tnwsnathga rytnwsnmgn ggnggnaayc arwsnytnmg nccntayath 720
ccntayatha thccnwsnat hathathytn athathathg gntgyathtg yytnytnaar 780
athwsnggnt tymgnaartg yaarytnccn aarytngarg cnacnwsngc nathgargar 840
gaygaratgc arccntaygc nwsntayacn garaarwsna ayccnytnta ygayacngtn 900
acnaargtng argcnttycc ngtnwsncar ggngargtna ayggnacnga ytgyytnacn 960
ytnwsngcna thggnath

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<210> 16
<211> 750
<212> DNA
<213> reverse translation
<220>
<221> misc_feature
<222> (1)..(750)
<223> n may be a, c, g, or t
<400> 16
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atgggnggna arcaratgac ncaraaytay wsnacnatht tygcngargg naayathwsn 60 carcengtny tnatggayat haaygengtn ytntgytgyc encenathge nytnmgnaay 120 ytnathatha thacntggga rathathytn mgnggncare enwsntgyac naargentay 180 aaraargara enaaygarac naargaracn aaytgyacng tngarmgnat hacntgggtn 240 wsnmgnceng aycaraayws ngayytncar athmgnceng tngayacnac neaygayggn 300 taytaymgng gnathgtngt nacneengay ggnaayttyc aymgnggnta ycayytncar 360 gtnytngtna encengargt naayytntty carwsnmgna ayathacnge ngtntgyaar 420 gengtnacng gnaarcenge ngenearath wsntggathe engarggnws nathytngen 480 acnaarcarg artaytgggg naayggnacn gtnaengtna arwsnaentg ycentgggar 540 ggncayaarw snacngtnac ntgycaygtn wsneayytna enggnaayaa rwsnytnwsn 600 gtnaarytna aywsnggnyt nmgnaenwsn ggnwsneeng enytnwsnyt nytnathath 660 ytntaygtna arytnwsnyt nttygtngtn athytngtna enaenggntt ygtnttytty 720

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<210> 17
<211> 582
<212> DNA
<213> reverse translation
<220>
<221> misc_feature
<222> (1)..(582)
<223> n may be a, c, g, or t
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tgyytnggnm gnaayathac ntgggcnwsn acnccngayc ayathccnga yytncarath 120
wsngcngtng cnytncarca ygarggnaay tayytntgyg arathacnac nccngarggn 180
aayttycaya argtntayga yytncargtn ytngtnccnc cngargtnac ntayttyytn 240
ggngaraaym gnacngengt ntgygargen atggenggna arcengenge nearathwsn 300
tggacnccng ayggngaytg ygtnacnaar wsngarwsnc aywsnaaygg nacngtnacn 360
gtnmgnwsna cntgycaytg ggarcaraay aaygtnwsng cngtnwsntg yathgtnwsn 420
caywsnacng gnaaycarws nytnwsnath garytnwsnm gnggnacnac nwsnacnacn 480
ccnwsnytny tnacnathyt ntaygtnaar atggtnytny tnggnathat hytnytnaar 540
                                                                   582
gtnggnttyg cnttyttyca raarmgnaay gtnacnmgna cn
<210> 18
<211> 834
<212> DNA
<213> reverse translation
<220>
<221> misc_feature
<222> (1)..(834)
<223> n may be a, c, g, or t
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congarwsnw sntgywsngt naarggnmgn gargarathc cncongayga ywsnttycon 120
ttywsngayg ayaayathtt yccngayggn gtnggngtna cnatggarat hgarathath 180
acnocingthw singthcarat hggnathaar genearytht tytgycayee nwsneenwsn 240
aargargcna cnytnmgnat htgggarath acnccnmgng aytggccnws ntgymgnytn 300
centaymgng engarythea rearathwsn aaraaratht gyaengarmg nggnaenaen 360
mgngtnccng cncaycayca rwsnwsngay ytnccnatha arwsnatggc nytnaarcay 420
gayggncayt aywsntgymg nathgaracn acngayggna thttycarga rmgncaywsn 480
athcargtnc enggngaraa ymgnaengtn gtntgygarg enathgenws naareengen 540
```

acnatgathg tnmgnwsnaa rtgycaymgn garaaraaya ayggncayws ngtnttytgy 660 ttyathwsnc ayytnacnga yaaytggath ytnwsnatgg arcaraaymg nggnacnacn 720 wsnathytnc cnwsnytnyt nwsnathytn taygtnaary tngcngtnac ngtnytnath 780 gtnggnttyg cnttyttyca raarmgnaay tayttymgng tnccngargg nwsn 834 <210> 19 <211> 1047 <212> DNA <213> Unknown <220> <223> Description of Unknown Organism:primate; surmised homo sapiens <220> <221> CDS <222> (1)..(1044) <220> <221> mat_peptide <222> (79)..(1044) <400> 19 atg ctc tgc cct tgg aga act gct aac cta ggg cta ctg ttg att ttg 48 Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu -20 act atc ttc tta gtg gcc gaa gcg gag ggt gct gct caa cca aac aac Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn -10 -1 tca tta atg ctg caa act agc aag gag aat cat gct tta gct tca agc 144 Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser 10 15 agt tta tgt atg gat gaa aaa cag att aca cag aac tac tcg aaa gta 192 Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val 25 30 ctc gca gaa gtt aac act tca tgg cct gta aag atg gct aca aat gct 240 Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala 40 45 288 gtg ctt tgt tgc cct cct atc gca tta aga aat ttg atc ata aca Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr 55 60 tgg gaa ata atc ctg aga ggc cag cct tcc tgc aca aaa gcc tac agg 336 Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Arg 75 85 aaa gaa aca aat gag acc aag gaa acc aac tgt act gat gag aga ata 384 Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile 90 95 100 acc tgg gtc tcc aga cct gat cag aat tcg gac ctt cag att cgt cca 432 Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Pro

atgcarathy tntggacncc ngaygargay tgygtnacna arwsnaarws ncayaaygay 600

105 110 115

gtg	gcc	atc	act	cat	gac	999	tat	tac	aga	tgc	ata	atg	gta	aca	cct	480
Val	Ala 120	Ile	Thr	His	Asp	Gly 125	Tyr	Tyr	Arg	Cys	Ile 130	Met	Val	Thr	Pro	
														aca Thr		528
-			_						_		_	_	_	aag Lys 165	-	576
_	_		_		_		_							ggc Gly	-	624
_	_		_		_			_						gtt Val	_	672
_		_				_								tgc Cys		720
_			_				_	_	_					ctt Leu		768
_			_				_							atc Ile 245		816
					_								_	ttg Leu		864
_			_	_				_				_		act Thr		912
														gag Glu		960
														cag Gln		1008
		_	_	-	gac Asp		_									1047

<210> 20

<211> 348

<212> PRT

<213> Unknown

<400> 20

Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu -25 -15

Thr -10	Ile	Phe	Leu	Val	Ala -5	Glu	Ala	Glu	Gly -1	Ala 1	Ala	Gln	Pro	Asn 5	Asn
Ser	Leu	Met	Leu 10	Gln	Thr	Ser	Lys	Glu 15	Asn	His	Ala	Leu	Ala 20	Ser	Ser
Ser	Leu	Cys 25	Met	Asp	Glu	Lys	Gln 30	Ile	Thr	Gln	Asn	Tyr 35	Ser	Lys	Val
Leu	Ala 40	Glu	Val	Asn	Thr	Ser 45	Trp	Pro	Val	Lys	Met 50	Ala	Thr	Asn	Ala
Val 55	Leu	Cys	Cys	Pro	Pro 60	Ile	Ala	Leu	Arg	Asn 65	Leu	Ile	Ile	Ile	Thr 70
Trp	Glu	Ile	Ile	Leu 75	Arg	Gly	Gln	Pro	Ser 80	Cys	Thr	Lys	Ala	Tyr 85	Arg
Lys	Glu	Thr	Asn 90	Glu	Thr	Lys	Glu	Thr 95	Asn	Cys	Thr	Asp	Glu 100	Arg	Ile
Thr	Trp	Val 105	Ser	Arg	Pro	Asp	Gln 110	Asn	Ser	Asp	Leu	Gln 115	Ile	Arg	Pro
Val	Ala 120	Ile	Thr	His	Asp	Gly 125	Tyr	Tyr	Arg	Cys	Ile 130	Met	Val	Thr	Pro
Asp 135	Gly	Asn	Phe	His	Arg 140	Gly	Tyr	His	Leu	Gln 145	Val	Leu	Val	Thr	Pro 150
Glu	Val	Thr	Leu	Phe 155	Gln	Asn	Arg	Asn	Arg 160	Thr	Ala	Val	Cys	Lys 165	Ala
Val	Ala	Gly	Lys 170	Pro	Ala	Ala	Gln	Ile 175	Ser	Trp	Ile	Pro	Glu 180	Gly	Asp
_		185	Lys				190			_		195			
	200	_	His	_		205					210				
Val 215	Ser	His	Leu	Thr	Gly 220	Asn	Lys	Ser	Leu	Tyr 225	Ile	Glu	Leu	Leu	Pro 230
Val	Pro	Gly	Ala	Lys 235	Lys	Ser	Ala	Lys	Leu 240	Tyr	Ile	Pro	Tyr	Ile 245	Ile
Leu	Thr	Ile	Ile 250	Ile	Leu	Thr	Ile	Val 255	Gly	Phe	Ile	Trp	Leu 260	Leu	Lys
Val	Asn	Gly 265	Cys	Arg	Lys	Tyr	Lys 270	Leu	Asn	Lys	Thr	Glu 275	Ser	Thr	Pro
Val	Val 280	Glu	Glu	Asp	Glu	Met 285	Gln	Pro	Tyr	Ala	Ser 290	Tyr	Thr	Glu	Lys
Asn 295	Asn	Pro	Leu	Tyr	Asp 300	Thr	Thr	Asn	Lys	Val 305	Lys	Ala	Ser	Gln	Ala 310
Leu	Gln	Ser	Glu	Val 315	Asp	Thr	Asp	Leu	His 320	Thr	Leu				

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<210> 21
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<213> reverse translation
<220>
<221> misc feature
<222> (1)..(1044)
<223> n may be a, c, g, or t
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garaaycayg cnytngcnws nwsnwsnytn tgyatggayg araarcarat hacncaraay 180
taywsnaarg tnytngcnga rgtnaayacn wsntggccng tnaaratggc nacnaaygcn 240
qtnytntqyt qyccnccnat hqcnytnmqn aayytnatha thathacntg ggarathath 300
ytnmgnggnc arccnwsntg yacnaargcn taymgnaarg aracnaayga racnaargar 360
acnaaytgya cngaygarmg nathacntgg gtnwsnmgnc cngaycaraa ywsngayytn 420
carathmgnc engtngenat hacneaygay ggntaytaym gntgyathat ggtnaeneen 480
gayggnaayt tycaymgngg ntaycayytn cargtnytng tnacnccnga rgtnacnytn 540
ttycaraaym gnaaymgnac ngcngtntgy aargcngtng cnggnaarcc ngcngcncar 600
athwsntgga thccngargg ngaytgygcn acnaarcarg artaytggws naayggnacn 660
gtnacngtna arwsnacntg ycaytgggar gtncayaayg tnwsnacngt nacntgycay 720
gtnwsncayy tnacnggnaa yaarwsnytn tayathgary tnytnccngt nccnggngcn 780
aaraarwsng cnaarytnta yathccntay athathytna cnathathat hytnacnath 840
gtnggnttya thtggytnyt naargtnaay ggntgymgna artayaaryt naayaaracn 900
garwsnacnc engtngtnga rgargaygar atgeareent aygenwsnta yaengaraar 960
aayaayccny tntaygayac nacnaayaar gtnaargcnw sncargcnyt ncarwsngar 1020
                                                                   1044
gtngayacng ayytncayac nytn
<210> 22
<211> 813
<212> DNA
<213> Unknown
<223> Description of Unknown Organism:rodent; surmised
      mus musculus
<220>
<221> CDS
<222> (1)..(810)
<220>
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<221> mat peptide

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							agt									96
Asn	Ile	Phe	Val	Ser -5	Gly	Ser	Ser	Cys -1	Thr 1	Asp	Glu	Asn	Gln 5	Thr	Ile	
		_	_				ctg			_				_		144
Gin	Asn	Asp 10	Ser	ser	ser	ser	Leu 15	Thr	Gin	vai	Asn	20	Tnr	мет	ser	
_	_	_	_		_	_	ctg		_	_			_		_	192
Val	25	мес	Asp	пàв	пув	30	Leu	ьец	СуБ	Сув	35	261	ser	PIO	Бец	
		_	_				tgg					_		_		240
11e 40	Asn	Ala	vaı	ьeu	45	Thr	Trp	11e	11e	ьуs 50	HIS	Arg	HIS	ьeu	55	
	_			_			cta	_		_					-	288
ser	Cys	1111	116	60	ıyı	ASII	Leu	Asp	БуS 65	пуъ	1111	ASII	GIU	70	per	
	_						tgg	_				_		_		336
Сув	ьеи	GIÀ	75	ASII	116	THE	Trp	80	ser	1111	PIO	Asp	85 85	ser	PIO	
_		_		_	_		gcc		_							384
GIU	ьеи	90	116	ser	AIA	Val	Ala 95	ьеu	GIII	птр	Giu	100	1111	ıyı	1111	
							999									432
Cys	105	116	Val	1111	PIO	110	Gly	ASII	Бец	Giu	115	vai	TYT	Asp	Бец	
		_					gta Val								_	480
120	vai	пец	vai	PIO	125	Giu	val	1111	TYL	130	FIO	GIY	Буб	ASII	135	
							gca Ala									528
1111	AIG	Vai	СуБ	140	AIG	Mec	AIG	Gly	145	rio	AIG	AIa	GIII	150	DCI	
tgg	act	cca	gat	999	gac	tgt	gtc	act	aag	agt	gag	tca	cac	agc	aat	576
Trp	Thr	Pro	Asp 155	Gly	Asp	Cys	Val	Thr 160	Lys	Ser	Glu	Ser	His 165	Ser	Asn	
							acg									624
Gly	Thr	Val 170	Thr	Val	Arg	Ser	Thr 175	Cys	His	Trp	Glu	Gln 180	Asn	Asn	Val	
	-			_		_	tct		_							672
Ser	Val 185	Val	Ser	Cys	Leu	Val 190	Ser	His	Ser	Thr	Gly 195	Asn	Gln	Ser	Leu	
		_	_	_			aca	_				_		_	_	720
Ser 200		Glu	Leu	Ser	Gln 205	Gly	Thr	Met	Thr	Thr 210		Arg	Ser	Leu	Leu 215	

acc att ctc tat gtg aaa atg gcc ctt ttg gtg att att ctt ctt aac Thr Ile Leu Tyr Val Lys Met Ala Leu Leu Val Ile Ile Leu Leu Asn 220 gta gga ttt gct ttc ttc cag aag aga aat ttt gcc aga aca tga Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Phe Ala Arg Thr 235 240 <210> 23 <211> 270 <212> PRT <213> Unknown <400> 23 Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile -1 1 Gln Asn Asp Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser Val Gln Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu Ile Asn Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro Ser Cys Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser 65 Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro Glu Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr Cys Glu Ile Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn 160 Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Asn Asn Val 170 Ser Val Val Ser Cys Leu Val Ser His Ser Thr Gly Asn Gln Ser Leu 190 195 Ser Ile Glu Leu Ser Gln Gly Thr Met Thr Thr Pro Arg Ser Leu Leu 205 210 Thr Ile Leu Tyr Val Lys Met Ala Leu Leu Val Ile Ile Leu Leu Asn 220 225 Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Phe Ala Arg Thr

813

235 240 245

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acncargtna ayacnacnat gwsngtncar atggayaara argcnytnyt ntgytgytty 180
wsnwsnccny tnathaaygc ngtnytnath acntggatha thaarcaymg ncayytnccn 240
wsntgyacna thgcntayaa yytngayaar aaracnaayg aracnwsntg yytnggnmgn 300
aayathacnt gggcnwsnac nccngaycay wsnccngary tncarathws ngcngtngcn 360
ytncarcayg arggnacnta yacntgygar athgtnacnc cngarggnaa yytngaraar 420
gtntaygayy tncargtnyt ngtnccnccn gargtnacnt ayttyccngg naaraaymgn 480
acngengtht gygargenat ggenggnaar cengengene arathwsntg gaeneengay 540
ggngaytgyg tnacnaarws ngarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600
tqycaytqqq arcaraayaa ygtnwsngtn gtnwsntgyy tngtnwsnca ywsnacnggn 660
aaycarwsny tnwsnathga rytnwsncar ggnacnatga cnacnccnmg nwsnytnytn 720
acnathytht aygthaarat ggcnythyth gthathathy thythaaygt nggnttygcn 780
ttyttycara armgnaaytt ygcnmgnacn
                                                                   810
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<211> 34
<212> PRT
<213> Mus musculus
<400> 25
Met Phe Cys Phe Trp Arg Thr Ser Ala Leu Ala Val Leu Leu Ile Trp
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met Phe Cys Phe Trp Arg Thr Ser Ala Leu Ala Val Leu Leu lle Trp

1 5 10 15

Gly Val Phe Val Ala Gly Ser Ser Cys Thr Asp Lys Asn Gln Thr Thr

20 25 30

Gln Asn

<210> 26 <211> 34 <212> PRT <213> Rattus rattus

<400> 26 Met Leu Cys Phe Trp Arg Thr Ser His Val Ala Val Leu Leu Ile Trp

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5
Gly Val Phe Ala Ala Glu Ser Ser Cys Pro Asp Lys Asn Gln Thr Met
                                25
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Gln Asn
<210> 27
<211> 60
<212> PRT
<213> Homo sapiens
<400> 27
Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu
Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn
           20
                                25
Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser
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Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn
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<210> 28
<211> 9
<212> PRT
<213> Homo sapiens
<400> 28
Met Gly Gly Lys Gln Met Thr Gln Asn
<210> 29
<211> 59
<212> PRT
<213> Mus musculus
Asn Ser Ser Pro Leu Thr Gln Val Asn Thr Thr Val Ser Val Gln
Ile Gly Thr Lys Ala Leu Leu Cys Cys Phe Ser Ile Pro Leu Thr Lys
Ala Val Leu Ile Thr Trp Ile Ile Lys Leu Arg Gly Leu Pro Ser Cys
Thr Ile Ala Tyr Lys Val Asp Thr Lys Thr Asn
<210> 30
<211> 59
<212> PRT
<213> Rattus rattus
Asn Ser Ser Thr Met Thr Glu Val Asn Thr Thr Val Phe Val Gln Met
Gly Lys Lys Ala Leu Leu Cys Cys Pro Ser Ile Ser Leu Thr Lys Val
                                25
Ile Leu Ile Thr Trp Thr Ile Thr Leu Arg Gly Gln Pro Ser Cys Ile
Ile Ser Tyr Lys Ala Asp Thr Arg Glu Thr His
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<210> 31
<211> 18
<212> PRT
<213> Homo sapiens
<400> 31
Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu
1
                                    10
Thr Asn
<210> 32
<211> 59
<212> PRT
<213> Homo sapiens
<400> 32
Tyr Ser Lys Val Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met
                                    10
Ala Thr Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu
           20
                                25
Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr
                            40
Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys
<210> 33
<211> 59
<212> PRT
<213> Homo sapiens
<400> 33
Tyr Ser Thr Ile Phe Ala Glu Gly Asn Ile Ser Gln Pro Val Leu Met
Asp Ile Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu
Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr
Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys
<210> 34
<211> 60
<212> PRT
<213> Mus musculus
<400> 34
Glu Thr Ser Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp
                                     10
His Ser Pro Glu Leu Gln Ile Ser Ala Val Thr Leu Gln His Glu Gly
                                 25
Thr Tyr Thr Cys Glu Thr Val Thr Pro Glu Gly Asn Phe Glu Lys Asn
                             40
Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr
    50
                        55
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<210> 35

<211> 60

<212> PRT

<213> Rattus rattus

<400> 35

Glu Ser Asn Cys Ser Asp Arg Ser Ile Thr Trp Ala Ser Thr Pro Asp
1 5 10 15

Leu Ala Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly
20 25 30

Arg Tyr Ser Cys Asp Ile Ala Val Pro Asp Gly Asn Phe Gln Asn Ile 35 40 45

Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr 50 55 60

<210> 36

<211> 59

<212> PRT

<213> Mus musculus

<400> 36

Glu Thr Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His
1 5 10 15

Ile Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Asn 20 25 30

Tyr Leu Cys Glu Ile Thr Thr Pro Glu Gly Asn Phe His Lys Val Tyr 35 40 45

Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr 50 55

<210> 37

<211> 60

<212> PRT

<213> Homo sapiens

<400> 37

Glu Thr Asn Cys Thr Asp Glu Arg Ile Thr Trp Val Ser Arg Pro Asp
1 5 10 15

Gln Asn Ser Asp Leu Gln Ile Arg Thr Val Ala Ile Thr His Asp Gly
20 25 30

Tyr Tyr Arg Cys Ile Met Val Thr Pro Asp Gly Asn Phe His Arg Gly
35 40 45

Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Thr 50 55 60

<210> 38

<211> 60

<212> PRT

<213> Homo sapiens

<400> 38

Glu Thr Asn Cys Thr Val Glu Arg Ile Thr Trp Val Ser Arg Pro Asp

Gln Asn Ser Asp Leu Gln Ile Arg Pro Val Asp Thr Thr His Asp Gly

Tyr Tyr Arg Gly Ile Val Val Thr Pro Asp Gly Asn Phe His Arg Gly 35 40 45

Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Asn

<210> 39

<211> 59

<212> PRT

<213> Mus musculus

<400> 39

Tyr Phe Pro Glu Lys Asn Arg Ser Ala Val Cys Glu Ala Met Ala Gly
1 5 10 15

Lys Pro Ala Ala Gln Ile Ser Trp Ser Pro Asp Gly Asp Cys Val Thr 20 25 30

Thr Ser Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys
35 40 45

His Trp Glu Gln Asn Asn Val Ser Asp Val Ser 50

<210> 40

<211> 59

<212> PRT

<213> Rattus rattus

<400> 40

His Phe Pro Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Ile Ala Gly
1 5 10 15

Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Ala 20 25 30

Lys Asn Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys
35 40 45

His Trp Glu Gln Ser His Val Ser Val Val Phe

<210> 41

<211> 59

<212> PRT

<213> Mus musculus

<400> 41

Tyr Phe Leu Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Met Ala Gly
1 5 10 15

Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Thr

Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys 35 40 45

His Trp Glu Gln Asn Asn Val Ser Ala Val Ser 50 55

<210> 42

<211> 59

<212> PRT

<213> Homo sapiens

<400> 42

Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala Val Ala Gly

Lys Pro Ala Ala His Ile Ser Trp Ile Pro Glu Gly Asp Cys Ala Thr

Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys Ser Thr Cys 35 40 45

His Trp Glu Val His Asn Val Ser Thr Val Thr 50 55

<210> 43

<211> 59

<212> PRT

<213> Homo sapiens <400> 43 Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys Ala Val Thr Gly Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Ser Ile Leu Ala 25 Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr Val Lys Ser Thr 40 Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr 55 <210> 44 <211> 59 <212> PRT <213> Mus musculus <400> 44 Cys Ile Val Ser His Leu Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Ser Arg Gly Gly Asn Gln Ser Leu Arg Pro Tyr Ile Pro Tyr Ile Ile 25 Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile Cys Leu Leu Lys Ile Ser Gly Phe Arg Lys Cys Lys Leu Pro Lys <210> 45 <211> 60 <212> PRT <213> Rattus rattus <400> 45 10 25 40 Lys Ile Ser Gly Cys Arg Lys Cys Lys Leu Pro Lys

Cys Val Val Ser His Leu Thr Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Gly Arg Gly Gly Asp Gln Leu Leu Gly Ser Tyr Ile Gln Tyr Ile Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile Cys Leu Leu

<210> 46 <211> 52 <212> PRT <213> Mus musculus

Cys Ile Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu 10 Ser Arg Gly Thr Thr Ser Thr Thr Pro Ser Leu Leu Thr Ile Leu Tyr 25 Val Lys Met Val Leu Leu Gly Ile Ile Leu Leu Lys Val Gly Phe Ala 35 40 Phe Phe Gln Lys 50

<210> 47 <211> 50 <212> PRT

<213> Homo sapiens

<400> 47 Cys His Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro Val Pro Gly Ala Lys Lys Ile Ser Lys Ile Ile Tyr Ser Ile 20 25 Tyr His Pro Tyr Tyr Tyr Leu Asp His Arg Gly Ile His Leu Val 40 Val Glu 50 <210> 48

<211> 55 <212> PRT <213> Homo sapiens

<400> 48

Cys His Val Ser His Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu 10 Asn Ser Gly Leu Arg Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile 25 Ile Leu Tyr Val Lys Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr 35 40 Gly Phe Val Phe Phe Gln Arg 50

<210> 49 <211> 55 <212> PRT <213> Mus musculus

<400> 49 Leu Glu Ala Thr Ser Ala Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala 10 Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys Val 25 Glu Ala Phe Pro Val Ser Gln Gly Glu Val Asn Gly Thr Asp Cys Leu Thr Leu Ser Ala Ile Gly Ile

<210> 50 <211> 55 <212> PRT <213> Rattus rattus

50

Ser Gly Ala Thr Pro Asp Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Thr 25 Glu Ala His Pro Ala Ser Gln Gly Lys Val Asn Gly Thr Asp Cys Leu Thr Leu Ser Ala Met Gly Ile

<210> 51 <211> 6 <212> PRT

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<213> Mus musculus
<400> 51
Arg Asn Val Thr Arg Thr
1
<210> 52
<211> 7
<212> PRT
<213> Homo sapiens
<400> 52
Ser Gln Trp Leu Gln Lys Ile
<210> 53
<211> 8
<212> PRT
<213> Homo sapiens
<400> 53
Ile Asn His Val Arg Lys Val Leu
              5
<210> 54
<211> 24
<212> PRT
<213> Homo sapiens
<400> 54
Met Gly Gly Lys Gln Met Thr Gln Asn Tyr Ser Thr Ile Phe Ala Glu
                                    10
Gly Asn Ile Ser Gln Pro Val Leu
            20
<210> 55
<211> 50
<212> PRT
<213> Mus musculus
<400> 55
Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile
Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile
                                 25
Gln Asn Asp Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser
                            40
Val Gln
    50
<210> 56
<211> 50
<212> PRT
<213> Homo sapiens
Met Asp Ile Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn
                                     10
```

Leu Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys

```
Thr Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys
                             40
Thr Val
    50
<210> 57
 <211> 23
 <212> PRT
 <213> Mus musculus
 <400> 57
 Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu
                                     10
 Thr Asn Glu Thr Cys Leu Gly
             20
 <210> 58
 <211> 49
 <212> PRT
 <213> Mus musculus
 <400> 58
 Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu Ile Asn
                                     10
 Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro Ser Cys
            20
                                 25
 Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser Cys Leu
                             40
 Gly
 <210> 59
 <211> 50
 <212> PRT
 <213> Homo sapiens
 <400> 59
 Glu Arg Ile Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln
 Ile Arg Pro Val Asp Thr Thr His Asp Gly Tyr Tyr Arg Gly Ile Val
. Val Thr Pro Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu
 Val Thr
     50
 <210> 60
 <211> 50
 <212> PRT
 <213> Mus musculus
 Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ile Pro Asp Leu Gln
                                     10
 Ile Ser Ala Val Ala Leu Gln His Glu Gly Asn Tyr Leu Cys Glu Ile
                                 25
 Thr Thr Pro Glu Gly Asn Phe His Lys Val Tyr Asp Leu Gln Val Leu
                             40
 Val Pro
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25

20

<210> 61

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<211> 50
<212> PRT
<213> Mus musculus
<400> 61
Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro Glu Leu Gln
Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr Cys Glu Ile
            20
                                25
Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu Gln Val Leu
                            40
Val Pro
    50
<210> 62
<211> 50
<212> PRT
<213> Homo sapiens
<400> 62
Pro Glu Val Asn Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys
Ala Val Thr Gly Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly
Ser Ile Leu Ala Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr
Val Lys
    50
<210> 63
<211> 49
<212> PRT
<213> Mus musculus
<400> 63
Pro Glu Val Thr Tyr Phe Leu Gly Glu Asn Arg Thr Ala Val Cys Glu
                                    10
Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly
                               25
Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val
                            40
Arg
<210> 64
<211> 49
<212> PRT
<213> Mus musculus
Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg Thr Ala Val Cys Glu
Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly
                                25
Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val
                            40
Arg
```

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<210> 65
<211> 49
<212> PRT
<213> Homo sapiens
<400> 65
Ser Thr Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr Cys His Val
                                    10
Ser His Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu Asn Ser Gly
                                25
Leu Arg Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile Ile Leu Tyr
                            40
Val
<210> 66
<211> 47
<212> PRT
<213> Mus musculus
<400> 66
Ser Thr Cys His Trp Glu Gln Asn Asn Val Ser Ala Val Ser Cys Ile
Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Ser Arg
                                25
Gly Thr Thr Ser Thr Thr Pro Ser Leu Leu Thr Ile Leu Tyr Val
                            40
<210> 67
<211> 47
<212> PRT
<213> Mus musculus
<400> 67
Ser Thr Cys His Trp Glu Gln Asn Asn Val Ser Val Val Ser Cys Leu
                                    10
Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Ser Gln
                               25
Gly Thr Met Thr Thr Pro Arg Ser Leu Leu Thr Ile Leu Tyr Val
                            40
<210> 68
<211> 27
<212> PRT
<213> Homo sapiens
Lys Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr Gly Phe Val Phe
Phe Gln Arg Ile Asn His Val Arg Lys Val Leu
<210> 69
<211> 25
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<212> PRT

<213> Mus musculus

<210> 70

<211> 25

<212> PRT

<213> Mus musculus

<400> 70

Lys Met Ala Leu Leu Val Ile Ile Leu Leu Asn Val Gly Phe Ala Phe 1 5 10 15

Phe Gln Lys Arg Asn Phe Ala Arg Thr 20 25